Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (previously presented) A battery separator comprising:
 - a microporous membrane including
 - an ultra high molecular weight polyethylene,
 - a filler, and
 - a grass liqnin.
- 2. (original) The separator of claim 1 wherein said grass lignin comprises about 5-20% by weight of said membrane.
- 3. (original) The separator of claim 2 wherein said grass lignin comprises about 5-10% by weight of said membrane.
- (currently amended) The separator of claim 1 wherein said grass lignin source being selected from the group consisting of: bagasse, straw, abaca, sisal, flax, jute, hemp, and combinations thereof.

- 5. (original) A lead acid battery including the separator of claim 1-
- 6. (previously presented) A battery separator comprises: a microporous membrane having an open cell structure with pores sizes in the range of about 0.1 to about 1 micron and porosity greater than 10%, and where said micropourous membrane comprises:

about 15-25% by weight of an ultra high molecular weight polyethylene:

> about 50-80% by weight of a filler; about 5-20% by weight of a grass lignin.

- 7. (original) The separator of claim 6 wherein said filler being selected from the group consisting of precipitated silica, oxide compounds, and mixtures thereof.
 - (cancelled) 8.
- 9. (currently amended) The separator of claim 6 wherein said grass lignin source being selected from the group consisting of: bagasse, straw, abaca, sisal, flax, jute, hemp, and combinations thereof.

10. (withdrawn) A thermoplastic polymer formulation comprising:

up to about 80% by weight of the formulation being thermoplastic polymer:

up to about 20% by weight of the formulation being a processing oil, and

up to about 10% by weight of the formulation being a grass lignin.

- 11. (withdrawn) The formulation of claim 10 wherein said polymer being a polyolefin.
- (withdrawn) The formulation of claim 10 wherein said 12. polymer being an ultrahigh molecular weight polyethylene.
- 13. (withdrawn) The formulation of claim 10 wherein said polymer includes a filler.
- 14. (withdrawn) The separator of claim 10 wherein said grass lighin being sourced from bagasse, straw, abaca, sisal, flax, jute, hemp, and combinations thereof.